

## **REDUCING SERVICE OUTAGES IN A MULTIBEAM SATELLITE SYSTEM**

### **ABSTRACT**

[0075] A satellite is linked to a number of gateways by a number of feeder links. When a degraded link is detected among the feeder links, communications are switched from the degraded link to a diversity link shared among the feeder links. In one embodiment, said diversity link is connected to a diversity gateway located outside a service area of the satellite. In another embodiment, the diversity link comprises channels distributed among the feeder links within the service area.